

74. (Amended) An assay device for determining the presence or amount of a plurality of different target ligands in a sample, the device comprising:

a diagnostic element comprising a capillary space through which said sample flows, comprising (i) a non-absorbent surface within said capillary space, and (ii) a plurality of discrete capture zones on said nonabsorbent surface, each discrete capture zone comprising a capture element that binds one target ligand in said plurality of different target ligands.

75. (Amended) The assay device of claim 74, comprising at least 50 said discrete capture zones, corresponding to at least 50 different target ligands.

89. (Amended) A method for determining the presence or amount of a plurality of different target ligands in a sample, the method comprising:

contacting the diagnostic element of claim 1 with

(i) a sample, and

(ii) a labeled reagent that binds to said plurality of target ligands,

whereby said sample and said labeled reagent flow through said capillary space for capture of each said different target ligand at its corresponding capture zone; and

generating a plurality of detectable signals from label bound to each different target ligand at its corresponding capture zone, whereby said signals are related to the presence or amount of said plurality of different target ligands in said sample.

90. (Amended) The method of claim 89, wherein said diagnostic element comprises at least 50 said discrete capture zones, corresponding to at least 50 different target ligands.

95. (Amended) A method for determining the presence or amount of a plurality of different target ligands in a sample, the method comprising:

contacting the diagnostic element of claim 1 with

(i) a sample, and

94 (ii) a plurality of ligand analogue conjugates, each ligand analogue conjugate corresponding to one of said plurality of different target ligands,

whereby said sample and said plurality of ligand analogue conjugates flow through said capillary space, whereby each different target ligand competes with its corresponding ligand analogue conjugate for capture at its corresponding capture zone; and

53 27 generating a plurality of detectable signals from ligand analogue conjugate bound at its corresponding capture zone, whereby said signals are related to the presence or amount of said plurality of different target ligands in said sample.

96. (Amended) The method of claim 95, wherein said diagnostic element comprises at least 50 said discrete capture zones, corresponding to at least 50 different target ligands.